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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

C mplete if Known

Attorney Docket Number:

SHEET 1 OF 1

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FOREIGN DOCUMENTS							
Examiner Initials	Foreign Patent Documents			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY		Translation
	Office	Number	Kind Code (if known)				

present

6/24/04

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

SHEET 1 OF 12

Complete If Known

Application Number: 09/768,414

Filing Date: 01/24/2001

First Named Inventor: M. Seul, et al.

Group Art Unit: 1641

Examiner Name:

Attorney Docket Number: PARSE-con2

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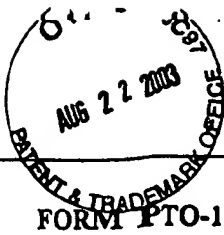
Examiner Initials	U.S. Documents		U.S. Patent Document Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	Number			
PD	5,723,233		Garza et al.	2/1996
	4,806,776		Kley	8/1985
	6,141,046		Roth et al.	10/31/2000
	6,018,350		Lee, et al.	1/25/2000
	6,023,590		Abe, et al.	2/8/2000
	6,025,905		Sussman	2/15/2000
	6,123,263		Feng	9/26/2000
	6,151,062		Inoguchi et al.	11/21/2000
	3,998,525		Giglia	12/1976
PTD	3,982,182		Hogg	9/1976

FOREIGN DOCUMENTS

Examiner Initials	Foreign Patent Documents			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation
	Office	Number	Kind Code (if known)			

Examiner Signature	<u>[Signature]</u>	Date Considered	<u>6/24/04</u>
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FORM PTO-1449 INFORMATION DISCLOSURE CITATION	Attorney Docket: <u>PARSE 62</u>	Serial No.: <u>09/768,414</u>
	Applicant: <u>Seul et al.</u>	
	Filing Date: <u>1/24/2001</u>	Group: <u>1</u>

U.S. PATENT DOCUMENTS

Examiner Initial	Patent Number	Publication Date	Name	Class	Sub-Class	Filing Date
PMD	5,281,370	01/25/94	Asher et al.			
	5,516,635	05/15/96	Ekins et al.			
	5,518,883	05/21/96	Soini			
	5,415,835	05/16/95	Brueck			
	5,604,097	02/18/97	Brenner			
	5,800,992	09/01/98	Fodor			
	6,023,540	02/08/00	Walt et al.			
	6,327,410	12/04/01	Walt et al.			
	6,266,459	07/24/01	Walt et al.			
	6,429,027	08/06/02	Chee et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initial	Patent Number	Publication Date	Country	Class	Sub-Class	Translation
PMD	WO 93/02360	02/04/93	PCT			<input type="checkbox"/> Yes <input type="checkbox"/> No
	WO 96/03212	02/08/96	PCT			<input type="checkbox"/> Yes <input type="checkbox"/> No
	1,248,873	01/17/89	Canada			<input type="checkbox"/> Yes <input type="checkbox"/> No
	WO 93/06121	04/01/93	PCT			<input type="checkbox"/> Yes <input type="checkbox"/> No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, etc.)

Materials from Freedom of Information Act pertaining to David R. Walt

Examiner: <u>[Signature]</u>	Date Considered: <u>6/24/04</u>
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.: PARSE-con2		SERIAL NO.: 04/768,414	
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				<div style="border: 2px solid black; border-radius: 50%; padding: 10px; display: inline-block;"> OIPF AUG 22 2003 U.S. PATENT & TRADEMARK OFFICE </div>			
				APPLICANT(S): SEUL, Michael		FILING DATE: 1/24/2001	
				GROUP: TECH CENTER 1600/2900		AUG 25 2003	

*EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PM	AA	4	4	9	9	0	5	2	2/12/85	Fuhrwyler	422	52	8/30/82	
	AB	4	6	4	7	5	4	4	3/3/87	Nicoß et al.	436	518	6/25/85	
	AC	4	8	2	2	7	4	8	4/18/89	Walt	436	528	6/25/86	
	AD	4	9	9	4	3	7	3	2/19/91	Stevianopoulos et al.	435	8	7/20/89	
	AE	5	0	0	2	8	6	7	3/26/91	Macevitz	435	8	10/24/88	
	AF	5	0	2	8	5	4	5	7/2/91	Soini	436	501	6/9/88	
	AG	5	1	0	5	3	0	5	4/14/92	Betzig	359	368	1/10/91	
	AH	5	1	1	4	8	6	4	5/19/92	Walt	436	528	6/19/89	
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	AJ	5	1	3	2	0	9	7	7/21/92	Van Deusen et al.	422	82.08	9/4/90	
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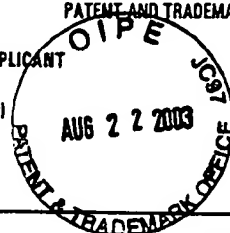
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	AM	0	4	7	8	3	1	9	4/1/92	EP	C12Q	1/88		X	
	AN	0	7	2	3	1	4	8	7/24/96	EP	G01N	21/84		X	
	AO	8	9	1	1	1	0	1	11/16/89	PCT	G01N	33/546		X	
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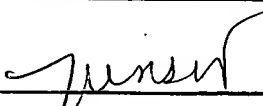
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
PM	AQ	Peterson, et al. "Fiber optic pH probe for physiological use," Anal. Chem. Vol. 52, 864-869 (1980)
	AR	Peterson, et al. "Fiber-Optic Sensors for Biomedical Applications," Science, 13: 123-127 (1984).
PM	AS	Fuh, et al., "Single Fibre Optic Fluorescence pH Probe," Analyst, 112: 1159-1163 (1987).

EXAMINER:	DATE CONSIDERED: 6/24/04
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LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT(S): SEUL, Michael		<div style="border: 2px solid black; padding: 5px; transform: rotate(-5deg); display: inline-block;"> RECEIVED AUG 25 2003 TECH CENTER 1600/2900 </div>	
				FILING DATE: <u>1/24/2001</u>			



U.S. PATENT DOCUMENTS													
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE							
PTD	BA	5 1 8 4 3 0 0	3/16/93	Chaung	427	213.31	11/8/89						
	BB	5 2 4 4 8 1 3	9/14/93	Walt et al.	438	172	4/20/92						
	BC	5 2 4 4 6 3 8	9/14/93	Walt et al.	422	82.07	1/25/91						
	BD	5 2 5 0 2 6 4	10/5/93	Walt et al.	422	82.07	12/21/92						
	BE	5 2 5 2 4 8 4	10/12/93	Walt	438	528	3/30/92						
	BF	5 2 5 4 4 7 7	10/19/93	Walt	438	172	9/19/91						
	BG	5 2 8 8 7 4 1	3/29/94	Walt et al.	250	227.23	1/13/93						
	BH	5 3 0 6 6 1 8	4/26/94	Prober et al.	435	6	1/16/92						
	BI	5 3 2 0 8 1 4	8/14/94	Walt et al.	422	82.07	11/25/92						
	BJ	5 3 6 2 6 5 3	11/8/94	Carr et al.	436	165	5/8/92						
	BK	5 4 0 5 7 8 4	4/11/95	Van Hoegaerden	436	523	2/25/93						
FOREIGN PATENT DOCUMENTS													
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						YES	NO						
	BL	9 3 0 6 1 2 1	4/1/93	PCT	C07H	21/00			X				
	BM	9 3 2 4 5 1 7	12/9/93	PCT	C07K				X				
	BN	9 7 1 4 0 2 8	4/17/87	PCT	G01N	15/10			X				
	BO												
	BP												
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)													
	BQ	Barnard, et al., "A fibre-optic chemical sensor with discrete sensing sites," <i>Nature</i> , vol. 353: 338-340 (1991).											
	BR	Campian, et al. "Colored and Fluorescent Solid Supports," <i>Innovation and Perspectives in Solid-Phase Synthesis</i> . Ed: E. Birmingham (Mayflower, London), pp. 469-472 (1994).											
	BS	Pope, "Fiber optic chemical microsensors employing optically active silica microspheres," <i>SPIE</i> , vol. 2388 : 245-258 (1995).											
EXAMINER				DATE CONSIDERED									
				<u>6/24/04</u>									
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.													

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE <div style="border: 1px solid black; border-radius: 50%; width: 100px; height: 100px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="text-align: center;"> OIPE AUG 22 2003 PATENT & TRADEMARK OFFICE 1600 </div> </div>		APPLICATION NO.: PARSE - 002		SERIAL NO.: 09/768,414	
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT(S): SEUL, Michael			
FILING DATE: 6/24/2001				GROUP: TECH CENTER 1600/2900 AUG 25 2003			

U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	CLASS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
P	CA	5 4 8 0 7 2 3	1/3/98	Kohno et al.	428	441	5/17/94
	CB	5 8 1 4 5 2 4	8/28/98	Walt et al.	438	518	12/14/95
	CC	5 4 9 8 9 8 7	3/5/98	Pope	250	227.21	1/3/94
	CD	5 5 1 2 4 9 0	4/30/98	Walt et al.	438	171	8/11/94
	CE	5 8 8 5 3 2 4	10/15/98	Birn et al.	435	8	4/13/94
	CF	5 8 8 7 8 2 7	10/22/98	Lehman	438	518	11/5/93
	CG	5 8 3 3 7 2 4	8/27/97	King et al.	358	445	8/29/95
	CH	5 8 3 3 9 7 3	8/27/97	Walt et al.	385	118	11/29/95
	CI	5 8 5 0 4 8 1	7/22/97	Lam et al.	530	334	8/19/91
	P	CJ	5 8 5 2 0 5 8	3/28/97	Marcus	428	403
CK		5 8 7 4 8 9 8	10/7/97	Farling et al.	435	7.92	3/30/91

FOREIGN PATENT DOCUMENTS							
DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
					YES		
CL							
CM							
CN							
CO							
CP							

OTHER PRIOR ART: (Indicate by country, date, and name of inventor)

Person 6/24/04

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.: <u>100-100000</u> <u>PARSE - can2</u>		SERIAL NO.: <u>1 09-1768, 414</u>	
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT(S): <u>SEUL, Michael</u>		FILING DATE: <u>October 17, 2000</u> <u>6/24/2001</u>	
U.S. PATENT DOCUMENTS				AUG 2 2 2003 U.S. PATENT OFFICE		AUG 2 5 2003 GROUP: <u>1600/2900</u>	
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
<u>PTD</u> 	DA	5 6 8 0 8 9 4	11/25/97	Pinkel et al.	422 68.1	5/23/95	
	DB	5 7 0 0 8 9 7	12/23/97	Klainer et al.	528 15	5/30/95	
	DC	5 7 7 8 9 7 6	7/14/98	Leland et al.	422 52	6/5/95	
	DD	5 8 3 8 0 2 1	8/17/99	Hansen et al.	422 55	1/23/97	
	DE	5 8 8 1 9 2 3	10/5/99	Nova et al.	422 68.1	8/30/96	
	DF	5 8 8 5 4 5 2	10/12/99	Kovacs	438 149	7/9/96	
	DG	6 0 4 8 8 9 0	4/11/00	Heller et al.	435 6	5/14/97	
	DH	6 0 9 0 5 4 5	7/18/00	Wohlstadter et al.	435 6	3/6/97	
	DI	6 0 9 0 9 1 2	7/18/00	Lebl et al.	530 300	11/23/98	
	DJ	6 2 0 0 7 3 7	3/13/01	Walt et al.	430 320	8/24/95	
<u>PTD</u> DK	DK						
FOREIGN PATENT DOCUMENTS							
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	DL						
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	DN						
	DO						
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
<u>PTD</u> 	DQ	Egger, et al., "Tagging in combinatorial chemistry: the use of coloured and fluorescent beads," Chem. Commun. pp. 735-738 (1997)					
<u>PTD</u> 	DR	Fulton, et al., "Advanced multiplexed analysis with the FlowMatrix system," Clinical Chemistry, vol. 43:9, pp. 1749-1758 (1997).					
<u>PTD</u> 	DS	Scott et al., "Properties of fluorophores on solid phase resins; implications for screening, encoding and reaction monitoring," Bioorganic & Medicinal Chemistry Letters, 7:12, pp. 1567-1572 (1997).					
EXAMINER <u>[Signature]</u>				DATE CONSIDERED <u>6/24/04</u>			
* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

FORM PTO-1449
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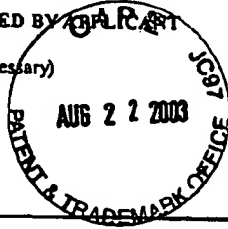
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PATENT AND TRADEMARK OFFICE

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PARSE-con2

09/768,414

APPLICANT(S): SEUL, Michael

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	EA						
	EB						
	EC						
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FOREIGN PATENT DOCUMENTS

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							YES	NO
	EL							
	EM							
	EN							
	EO							
	EP							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<u>EQ</u>	Healey et al., "Fiberoptic DNA sensor array capable of detecting point mutations," Analytical Biochemistry, vol. 251, pp. 270-279 (1997).
<u>ER</u>	"Microsphere Selection Guide," Bangs Laboratories, Inc. (Fisher, IN) (September 1998)
<u>ES</u>	

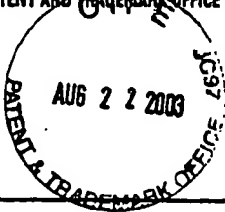
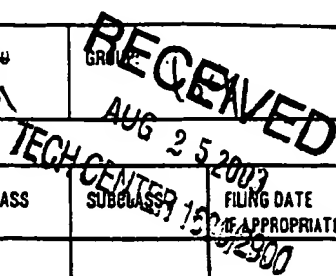
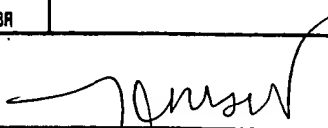
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FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.: PARSE-622		SERIAL NO.: 09/7-68,414	
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT(S): SEUL, Michael		FILING DATE: 6/24/2001	
				FILING DATE: 6/24/2001			
				U.S. PATENT DOCUMENTS			
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							YES NO
	BG						
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
PAR	BJ	Treu et al., "Field-Induced Layering of Colloidal Crystals," <i>Science</i> , vol. 272 : 706-709 (1998)					
	BK	Seul et al., "Domain Shapes and Patterns: The Phenomenology of modulated Phases," <i>Science</i> , vol. 267 : 478-483 (1995)					
	BL	Schena et al., "Quantitative Monitoring of Gene Expression Patterns with a Complementary DNA Microarray," <i>Science</i> , vol. 270 : 487-470 (1995)					
	BM	Haab et al., "Single Molecule Fluorescence Burst Detection of DNA Fragments Separated by Capillary Electrophoresis," <i>Analytical Chemistry</i> , vol. 67 (No. 18) : 3253-3256 (1995)					
	BN	Richetti, et al., <i>J. Physique Lettr.</i> , vol. 45 : L-1137 to L-1143 (1984)					
PAR	BO	Sze, "MIS Diode and Charge-Coupled Device," <i>The Physics of Semiconductors</i> , Chapter 7, pp. 362-430 (2 nd Edition) (Wiley Interscience 1981)					
	BP						
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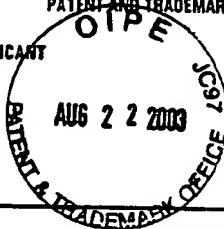
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APPLICANT(S): SEUL, Michael

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GROUP:

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U.S. PATENT DOCUMENTS

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P90	AA 3 9 9 8 5 2 5	12/21/78	Giplin	350	160	
	AB 4 0 7 5 0 1 3	02/21/78	Ward et al.	98	1.5	09/13/78
	AC 4 4 5 6 5 1 3	06/28/84	Kawal et al.	204	180	08/25/82
	AD 4 5 7 5 4 0 7	03/11/89	Diller	204	67	10/24/84
	AE 4 5 8 1 5 5 0	05/27/88	Hafeman et al.	435	4	04/05/84
	AF 5 4 4 4 3 3 0	08/22/95	Leventis et al.	313	508	02/18/93
	AG 5 5 8 7 1 2 8	12/24/96	Wilding et al.	422	50	11/14/94
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	AJ 8 0 3 3 5 4 7	03/07/00	Trau et al.	204	822	01/04/99
	AK					

FOREIGN PATENT DOCUMENTS

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AL	8 8 0 4 5 4 7	02/15/86	PCT	G01N	2700		X
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AO							
AP							

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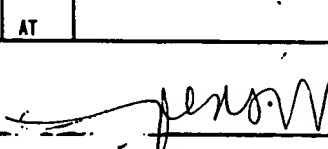
AR	Yeh, et al., "Assembly of ordered colloidal aggregates by electric-field-induced fluid flow," <i>Nature</i> , vol. 386.6: 57-59 (1997)
AS	Giersig et al., "Formation of ordered two-dimensional gold colloid lattices by electrophoretic deposition," <i>J. Phys. Chem.</i> , vol. 97: 6334-6336
AT	Seul et al., "Scale transformation of magnetic bubble arrays: coupling of topological disorder and polydispersity," <i>Science</i> , vol. 282: 558-560 (1993)

EXAMINER

DATE CONSIDERED

6/24/04

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AUG 22 2003 PATENT & TRADEMARK OFFICE				RECEIVED GROUP: 100 AUG 26 2003 TECH CENTER 1500/200										
U.S. PATENT DOCUMENTS														
*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	REMARKS IF APPROPRIATE	
(P)	AA	4	7	1	7	8	5	5	01/05/88	Fulwyler	435	7	10/15/84	
	AB	5	5	7	3	9	0	9	11/12/88	Singer et al.	435	8	05/20/84	
	AC	5	5	8	5	0	6	8	12/17/88	Zanzucchi et al.	422	100	11/10/94	
	AD	5	5	8	3	8	3	8	01/14/97	Zanzucchi et al.	435	8	05/31/95	
	AE	5	7	2	3	2	1	8	03/03/98	Haugland et al.	428	402	06/07/95	
	AF	5	7	4	4	3	0	5	04/28/98	Fedor et al.	435	8	06/06/95	
	AG	5	8	0	7	7	5	5	09/15/98	Ekins	438	518	05/23/95	
	AH	5	8	3	7	5	5	1	11/17/98	Ekins	438	518	12/23/94	
	AI	5	8	7	4	2	1	8	02/23/99	Rava et al.	435	8	04/09/96	
	AJ	5	8	8	8	8	3	5	11/23/99	Dunlay et al.	435	7.2	02/27/97	
	AK	8	0	2	3	5	4	0	02/08/00	Welt et al.	385	12	03/14/97	
FOREIGN PATENT DOCUMENTS														
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
(P)	AL	9	5	1	2	8	0	8	05/11/95	PCT	G01N	21/00		X
	AM	9	8	0	7	9	1	7	03/14/96	PCT	G01N	35/00		X
	AN	9	7	4	0	3	8	3	10/30/97	PCT	G01N	33/543		X
	AO	8	8	0	8	0	0	7	02/12/98	PCT	G03F	7/00		X
(P)	AP	9	8	5	3	3	0	0	11/28/98	PCT	G01N	21/00		X
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
(P)	AR	Micheletto et al., <i>Langmuir</i> , vol. 11, 3333-3338 (1995)												
(P)	AS	Nagayama et al., <i>Phase Transitions</i> , vol. 45, 185-203 (1993)												
	AT													
EXAMINER										DATE CONSIDERED				
										6/24/04				
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.														

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PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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SHEET 12 OF 12

Complete if Known

Application Number: 09/1768,414
 Filing Date: 1/24/2001
 First Named Inventor: M. S. ul, et al.
 Group Art Unit: 1641
 Examiner Name: TECH CENTER 252003
 Attorney Docket Number: 1600/2900

Examin er Initials	U.S. Documents		U.S. Patent Document Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	Number			
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1	6,172,218 B1		Brenner	1/9/2001
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	Office	Number	Kind Code (if known)			
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<u>PTO</u>		WO 00/03004		Fechter, et al.	1/20/2000	
		WO 00/75373		Walt, et al.	12/14/2000	

Examiner Signature	<u>[Signature]</u>	Date Considered	<u>6/24/04</u>
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